



# SAFETY DATA SHEET

Product: MARC 284 STAINLESS STEEL WIPES

Form R04132

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER AND NAME: MARC 284 STAINLESS STEEL WIPES

SDS DATE: 04/28/16

SUPPLIER: Mid-American Research Chemical Corp. ADDRESS: P. O. Box 927 Columbus, NE 68602-0927  
PHONE: 402-564-7104 FAX: 403-563-1290  
EMERGENCY PHONE: InfoTrac 1-800-535-5053  
E-MAIL: marc@marc1.com WEBSITE: www.marc1.com

RECOMMENDED USE: Stainless Steel Cleaning Wipes.

PREPARED BY: MARC

## SECTION 2: HAZARDS IDENTIFICATION

CLASSIFICATION: This chemical is considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200)

Aspiration Toxicity	Category 1
Flammable liquids	Category 4

- May be fatal if swallowed and enters airways.
- Combustible liquid.



SIGNAL WORD AND PRECAUTIONARY STATEMENTS: **DANGER:** Extremely flammable aerosol. May be fatal if swallowed and enters airways.

PREVENTION: Keep away from heat/sparks/open flames/hot surfaces – No smoking. Do not spray on an open flame or other ignition source. Wear protective gloves/protective clothing/eye protection/face protection.

OTHER INFORMATION: Toxic to aquatic life with long lasting effects.

POTENTIAL HEALTH EFFECTS: See Section 11 for more information.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NO.	WEIGHT %	TRADE SECRET
White Mineral Oil	8042-47-5	10% - 30%	*
2,6-Di-tert-butyl-p-cresol	128-37-0	<0.1%	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

## SECTION 4: FIRST AID MEASURES

**EYES:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**SKIN:** Remove contaminated clothing immediately and wash skin with soap and water. Seek medical attention if irritation persists.

**INGESTION:** Clean mouth with water and drink plenty of water. Call a doctor or poison center immediately.

**INHALATION:** Move to fresh air. Call a doctor if symptoms persist or you feel unwell.

**MOST IMPORTANT SYMPTOMS/  
EFFECTS, ACUTE & DELAYED:** No information available.



# SAFETY DATA SHEET

Product: MARC 284 STAINLESS STEEL WIPES

Form R04132

## INDICATION OF IMMEDIATE MEDICAL ATTENTION & SPECIAL TREATMENT NEEDED:

**NOTES TO PHYSICIAN:** Treat symptomatically. If you feel unwell, seek medical advice (show the label where possible). Show this safety data sheet to the doctor in attendance.

## SECTION 5: FIRE FIGHTING MEASURES

**SUITABLE EXTINGUISHING MEDIA:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**UNSUITABLE EXTINGUISHING MEDIA:** **CAUTION:** Use of water spray when fighting fire may be inefficient.

**FIRE-FIGHTING EQUIPMENT/ PRECAUTIONS:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** No information available.

### EXPLOSION DATA

**Sensitivity to Mechanical Impact** None.  
**Sensitivity to Static Discharge** None.

**HAZARDOUS DECOMPOSITION PRODUCTS:** None known based on information supplied.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**EMERGENCY PROCEDURES/ PROTECTIVE EQUIPMENT/ PRECAUTIONS:** Ensure adequate ventilation.

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANUP:** Prevent further leakage or spillage if safe to do so. Pick up and transfer to properly labeled containers.

**ENVIRONMENTAL PRECAUTIONS:** See Section 12 for additional Ecological information.

## SECTION 7: HANDLING AND STORAGE

**PRECAUTIONS FOR SAFE HANDLING:** Handle in accordance with good industrial hygiene and safety practices. Keep

**OTHER PRECAUTIONS:** **KEEP OUT OF REACH OF CHILDREN!**

**STORAGE:** Store locked up. Keep containers tightly closed in a dry, cool and well-ventilated place.

**INCOMPATIBLE PRODUCTS:** None known based on information supplied.



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Product: MARC 284 STAINLESS STEEL WIPES

Form R04132

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### CONTROL PARAMETERS

### EXPOSURE GUIDELINGS

CHEMICAL NAME	ACGIH TLV	OSHA PEL	NIOSH IDLH
White Mineral Oil 8042-47-5	TWA: 5mg/m3 Inhalable fraction excluding metal working fluids, highly & severely refined	TWA: 5 mg/m3 (vacated) TWA: 5 mg/m3	IDLH: 2500 mg/m3 TWA: 5 mg/m3 STEL: 10 mg/m3

### APPROPRIATE ENGINEERING CONTROLS/

**VENTILATION:** Ventilation systems.

**RESPIRATORY PROTECTION:** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**EYE/FACE PROTECTION:** No special protective equipment required.

**SKIN PROTECTION/PROTECTIVE GLOVES/  
OTHER PROTECTIVE CLOTHING:** No special protective equipment required.

**EQUIPMENT:** Eye wash stations and showers.

**WORK HYGIENIC PRACTICES:** Handle in accordance with good industrial personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash protective equipment to remove contaminants.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### APPEARANCE:

**PHYSICAL STATE:** Liquid

**COLOR:** Colorless.

**ODOR:** Citrus.

**ODOR THRESHOLD:** No information available.

**pH:** No data available.

**MELTING/FREEZING POINT:** No data available.

**INITIAL BOILING POINT/RANGE:** 187.78°C / 370°F)

**FLASH POINT/METHOD USED:** No data available. 71.1 160

**EVAPORATION RATE:** No data available.

**FLAMMABILITY (solid, gas):** No data available

**FLAMMABILITY LIMITS (%):** **LOWER:** No data available. **UPPER:** No data available.

**VAPOR PRESSURE (mmHg):** No data available.

**VAPOR DENSITY (AIR = 1):** > 1 (air = 1)

**SPECIFIC GRAVITY (H2O = 1):** 0.800

**SOLUBILITY IN WATER:** Negligible

**PARTITION COEFFICIENT,  
n-OCTANOL/WATER:** No data available

**AUTO-IGNITION TEMPERATURE:** No data available.

**DECOMPOSITION TEMPERATURE:** No data available.

**VISCOSITY:** No data available.

**FLAMMABLE PROPERTIES:** Not flammable.

**EXPLOSIVE PROPERTIES:** No data available.

**OXIDIZING PROPERTIES:** No data available.

**OTHER INFORMATION:**  
**VOC CONTENT (%):** 3.00%



**SAFETY DATA SHEET**  
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Form R04132

**SECTION 10: STABILITY AND REACTIVITY**

**REACTIVITY:** No data available.

**CHEMICAL STABILITY:** Stable under recommended storage conditions.

**POSSIBILITY OF HAZARDOUS REACTIONS:** None under normal processing.

**CONDITIONS TO AVOID:** None known based on information supplied.

**INCOMPATIBILITY (MATERIAL TO AVOID):** None known based on information supplied.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** None known based on information supplied.

**HAZARDOUS POLYMERIZATION:** Does not occur. **CONDITIONS TO AVOID (POLYMERIZATION):** Will not occur

**SECTION 11: TOXICOLOGICAL INFORMATION**

**INFORMATION ON LIKELY ROUTES OF EXPOSURE:**

**EYES:** Contact with eyes may cause irritation.

**SKIN:** May cause irritation.

**INGESTION:** Not an expected route of exposure. Potential for aspiration if swallowed. May be fatal if swallowed and enters airways.

**INHALATION:** May be harmful if inhaled.

CHEMICAL NAME	LD50 ORAL	LD50 DERMAL	LC50 INHALATION
Isoparaffinic Hydrocarbon	>5000 mg/kg (Rat)	>2000 mg/kg (Rabbit)	>5.2 mg/l (Rat) 4 h
White Mineral Oil	>5000 mg/kg (Rat)	-	-
Naphtha (petroleum) hydrotreated heavy	>5000 mg/kg (Rat)	>3160 mg/kg (Rabbit)	-

**SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS**

**SYMPTOMS:** No information available.

**DELAYED AND IMMEDIATE EFFECTS AND ALSO CHRONIC EFFECTS FROM SHORT AND LONG TERM EXPOSURE**

**Sensitization:** No information available.

**Mutagenic Effects:** No information available.

**Carcinogenicity:** The table below indicates whether each agency has listed any ingredient as a carcinogen.

CHEMICAL NAME	ACGIH	IARC	NTP	OSHA
White Mineral Oil	A2			
2,6-Di-tert-butyl-p-cresol		Group 3	-	

**ACGIH: (American Conference of Governmental Industrial Hygienists)**

A2 – Suspected Human Carcinogen

**Reproductive toxicity:** No information available.

**STOT - Single exposure:** No information available.

**STOT - Repeated exposure:** No information available.

**Aspiration hazard:** No information available.

**Numerical measures of toxicity – Product**

The following values are calculated based on chapter 3.1 of the GHS document.

**LD50 Oral** 6611 mg/kg; Acute toxicity estimate.



# SAFETY DATA SHEET

Product: MARC 284 STAINLESS STEEL WIPES

Form R04132

## SECTION 12: ECOLOGICAL INFORMATION

**Ecotoxicity:** Toxic to aquatic life with long lasting effects.

CHEMICAL NAME	TOXICITY TO ALGAE	TOXICITY TO FISH	TOXICITY TO MICROORGANISMS	DAPHNIA MAGNA (WATER FLEA)
Isoparaffinic Hydrocarbon 64742-47-8		LC50 96 h: = 45 mg/L Flow-through (Pimephales Promelas) LC50 96 h: = 2.2 mg/L static (Lepomis Macrochirus) LC50 96 h: = 2.4 mg/L static (Oncorhynchus mykiss)		LC50 96 h: = 4720 mg/L (Daphnia magna)
White Mineral Oil 8042-47-5		LC50 96 h: > 10000 mg/L (Lepomis Macrochirus)		
Naphtha (petroleum) hydrotreated heavy 64742-48-9		LC50 96 h: = 2200 mg/L (Pimephales Promelas)		LC50 96 h: = 2.6 mg/L (Chaetogammarus marinus)
2,6-Di-tert-butyl-p-cresol 128-37-0	EC50 72 h: = 6 mg/L (Pseudokirchneriella subcapitata ) EC50 72 h: > 0.42 mg/L (Desmodesmus Subspicatus)	LC50 96 h: = 5 mg/L (Oryzias latipes)	EC50 = 7.82 mg/L 5 min EC50 = 8.57 mg/L 15 min EC50 = 8.98 mg/L 30 min	

**Persistence and degradability:** No information available.

**Bioaccumulative:** No information available.

CHEMICAL NAME	LOG POW
White Mineral Oil	6.006
2,6-Di-tert-butyl-p-cresol	4.17

**Other adverse effects:** No information available.

## SECTION 13: DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL METHOD:** Dispose of in accordance with federal, state and local regulations.

**CONTAMINATED PACKAGING:** Do not re-use empty containers.

## SECTION 14: TRANSPORT INFORMATION

### U.S. DEPARTMENT OF TRANSPORTATION (for ground/non-bulk containers)

<b>CONTAINER SIZE(S):</b>	SPECIAL
<b>PROPER SHIPPING NAME:</b>	TOWELS AND CLEANSING CLOTHS.
<b>HAZARD CLASS:</b>	N/A
<b>ID NUMBER:</b>	None
<b>PACKING GROUP:</b>	None
<b>LABEL STATEMENT:</b>	LTD QTY



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Form R04132

**SECTION 15: REGULATORY INFORMATION**

**INTERNATIONAL INVENTORIES**

**TSCA** Complies.

**LEGEND**

**TSCA -** United States Toxic Substances Control Act Section 8 (b) Inventory.  
**DSL/NDL -** Canadian Domestic substances List/Non-Domestic Substances List.

**U.S. FEDERAL REGULATIONS:** Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

**Acute Health Hazard -** Yes  
**Chronic Hazard -** No  
**Fire Hazard -** Yes  
**Sudden Release of Pressure Hazard -** No  
**Reactive Hazard -** No

**CLEAN WATER ACT**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CERCLA:** This material, as supplied, does not contain any substances regulated as hazardous substances under the comprehensive Environmental Response compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) 40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**U.S. STATE REGULATIONS**

**CALIFORNIA PROPOSITION 65**

This product does not contain any Proposition 65 chemicals.

**U.S. STATE RIGHT-TO-KNOW REGULATIONS**

"X" designates that the ingredients are listed on the state right to know list.

CHEMICAL NAME	NEW JERSEY	MASSACHUSETTS	PENNSYLVANIA	ILLINOIS	RHODE ISLAND
White Mineral Oil	X	X	X		X
2,6-Di-tert-butyl-p-cresol	X	X	X		X

**U.S. EPA LABEL INFORMATION**

**EPA Pesticide Registration Number:** Not applicable.

**SECTION 16: OTHER INFORMATION**

**HMIS/NFPA Ratings:** Health = 1  
Flammability = 2  
Reactivity = 0  
Other = -  
Protection = X

**REVISION DATE:** 04/28/16

N/A = Not Applicable, N/D = Not Determined, N/E = Not Established

**DISCLAIMER:** The information provided on this SDS is correct to best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.